



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: :
CHARLES D. JAQUAYS : Group Art Unit: 1755
For: Building and Other Materials : Examiner: Marcantoni, Paul D.
Containing Treated Bauxite Tailings :
and Process for Making Same :
Serial No. 10/690,729 :
Filed: 10/23/2003 :

AMENDMENTS TO SPECIFICATION (37 CFR 1.121b)

Please replace the paragraph beginning at page 3, line 22 and continuing to page 4, line 9 with the following new paragraph:

It should be noted at this point that there are secondary and tertiary reactions that can and will take place when the acid is added to the somewhat basic slurry. It is for this reason that it is preferred to have as fine a slurry as ~~pract-icable~~ practicable under the prevailing circumstances and that the fine slurry is in a state of vigorous agitation at the moment of the intromission of an acid, the purpose of which is to diminish the reaction time or, the "time until exposure" of the acid to the target compound (sodium hydroxide). Inevitably, some potassium, magnesium and aluminum as well as other elements will be caught up in the process, but not enough in these circumstances to inhibit the goal, which is to remove the sodium hydroxide from the bauxite tailings so that the tailing can then be stabilized and subsequently incorporated into the matrix of common building materials.

Please replace the paragraph beginning at page 5, line 26 and continuing to page 6, line 5 with the following new paragraph:

By using sulfuric acid as the primary reagent, and not removing the resulting salts that are formed from the neutralizing reaction that takes place, save for what is removed by separating the excess water from the slurry, the remaining sodium sulfate acts as a catalyst for the formation of the ~~carbonatious~~ carbonaceous crystals that characterize the internal crystalline structure of cementitious matrixes.



Donald A. Kettlestrings
Attorney for Applicant
Registration No. 24,573
414 Hungerford Drive, Suite 211
Rockville MD 20850
301-279-7577

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Donald A. Kettlestrings

